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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857920006-3"

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11.2140

AUTHORS:

Babko, A. K., Ul'ko, N. V.

TITLE:

Peroxide complexes of zirconium

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 27, no. 3, 1961, 290-295

TEXT: The authors proved the existence of water-soluble peroxide complexes of zirconium (Zr). These complexes have a ratio $Zr: H_2O_2 = 1:1$ and 2:1 in strongly acid medium (1 - 2 N HCl), and 1:2 in alkaline medium (pH 12 - 14). No data have been published on composition and stability of these complexes. (A) Study of the system $\left[\text{TiO}(H_2O_2)\right]^{2+} - Zr^{4+}$

in acid medium by the method of isomolar series. The authors prepared 0.03 M solutions of titanium- (Ti) and Zr chlorides in 1 N HCl and mixed the solution of the titanium peroxide complex (Ti: $\rm H_2O_2 = 1:1$) with

solutions of zirconium chloride. After filling to 50 ml with HCl, they measured the optical density D' with an Φ M(FM) photometer. From the difference between the optical density (D) of a specimen series without Zr, and D'(Fig. 1) it is concluded that several Zr peroxide complexes are

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formed, those with a ratio $Zr : H_2O_2 = 2 : 1$ and 1 : 1 prevailing. Since experiments in 1 N and 2 N HCl yielded the same results, the authors conclude that the equilibrium is independent of [H+] in the complex formation in acid medium. Since Zr and H2O2 move toward the cathode in the electro-lysis of acid solutions, the Zr peroxide complexes are products of accumulation of H₂O₂ molecules on Zr or zirconyl ions. (B) Method of isomolar series and absorption spectra in the ultraviolet range. Spectra of solutions of zirconium chloride and $\rm H_2O_2$ of the same concentration in 2 N HCl were measured with an $C\Phi-4$ (SF-4) instrument at λ 350 to 250 m μ . The spectra of Zr peroxide complexes differed from those of HoO2. Similar measurements as under (A) of D' (Zr and H2O2) and D (H2O2 without Zr) confirmed the existence of the two complexes. (C) Equilibrium in the system $\left[\text{TiO}(\text{H}_2\text{O}_2)\right]^{2+}\text{-ZrO}^{2+}$. Experiments were made with constant concentration of the Ti complex 2.1.10⁻³ mole. The Zr concentration was varied. On the basis of equations for the established equilibrium of the dissociation constants of the resulting complex, the authors calculated the dissociation constant: = n log $\left| \text{ZrO}^{2+} \right|$ +p, where p =-log K (6). Card 2/7

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According to test conditions, $\text{Ti}_{\text{tot}} = [\text{H}_2 \text{O}_{2\text{tot}}] = 21 \cdot 10^{-4} \text{ moles.}$ From the data of Figs. 1 and 4, they calculated the concentration of free TiO^{2+} . On the basis of $\left[\text{TiO}(\text{H}_2\text{O}_2)\right]^{2+} + \text{nZrO}^{2+} \rightleftharpoons \left[(\text{ZrO})_n \text{H}_2\text{O}_2\right]^{2n+} + \text{TiO}^{2+}$ (1), $\left[((\text{ZrO})_n \text{H}_2\text{O}_2)^{2n+}\right] = \left[\text{TiO}^{2+}\right]_{\text{free}}$ The concentration of free H_2O_2 is equal to the equilibrium concentration of $\left[(\text{TiOH}_2\text{O}_2)^{2+}\right]$. It can be determined from the data of Figs. 1 and 4. On the basis of their results, the authors calculate the value of $\log \frac{\left[((\text{ZrO})_n \text{H}_2\text{O}_2)^{2n+}\right]}{\left[((\text{ZrO})_n \text{H}_2\text{O}_2)^{2n+}\right]}$ for certain values of $\log \left[\text{ZrO}^{2+}\right]_{\text{free}}$, whose concentration is determined by the equation $\left[\frac{\left[((\text{ZrO})_n \text{H}_2\text{O}_2\right)^{2n+}\right]}{\left[((\text{ZrO})_n \text{H}_2\text{O}_2)^{2n+}\right]}.$ Fig. 5 shows the function $\log \frac{\left[\text{H}_2\text{O}_2\right]_{\text{free}}}{\left[\text{H}_2\text{O}_2\right]_{\text{free}}} = F\left\{\log \left[\text{ZrO}^{2+}\right]_{\text{free}}\right\}.$ The inclination (tan α) of the straight line is equal to the coordination number n. With low concentrations of Zr^{2+} , the inclination of the lower section of the curve is Card 3/7

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near n = 1, while the upper one suggests a possible formation of peroxide complexes with n>1 in the system. The calculated equilibrium constants of the complex formation with a ratio $Zr: H_2O_2 = 1:1$ are not stable, and vary between 0.04 and 1.01. The complex with $Zr: H_2O_2 = 2:1$ forms in prevalent quantity if the total concentration of Zr is higher than that of H_2O_2 , i. e., from $\left[Zr^{2+}\right] = 24\cdot10^{-4}$ mole to $42\cdot10^{-4}$ mole (Fig. 4). Then the calculated values of the equilibrium constant of the complex formation lie between $1.58\cdot10^{-6}$ and $3.7\cdot10^{-6}$. A complex of the dimer $\left(ZrO^{2+}\right)_2$ with H_2O_2 is formed. (D) Zr peroxide complex in alkaline medium. At pH 12-14, Zr forms a soluble peroxide complex, and does not precipitate as a hydroxide. Since at pH 14,a Zr- and H_2O_2 -containing, fine-crystalline precipitate is formed on settling, the authors studied the equilibrium between this poorly soluble compound and the soluble complex. The Zr concentration remained constant, that of H_2O_2 was varied. It was found that $Zr: H_2O_2$ was about 1:2 in the solution. As long as this ratio in the solution is Zr and Zr

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below 1: 2, no precipitate is formed. The Tyndall cone appears only when this ratio is overstepped. It is concluded that at least 2 moles H_2O_2 in the solution are required to keep 1 mole Zr in solution. Thus, a Zr peroxide complex with a ratio Zr: $H_2O_2 = 1$: 2 should exist in the alkaline solution. Since the complex ion in the electrolysis worders to

alkaline solution. Since the complex ion in the electrolysis wanders to the anode, the formula $[Zr0(0_2)_2]^{2^2}$ is ascribed to it. There are 5 figures, 1 table, and 10 references: 4 Soviet-bloc and 6 non-Soviet-bloc. The two most important references to English-language publications read as follows: E. Garsen and A. Gamill (Ref. 7: J. Am. Chem. Soc., 72, 3615 (1950), Latimer (Ref. 8: Oxidation Potentials, 253 (1938).

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko (Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: September 24, 1959

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Peroxide complexes of zirconium. Ukr.khim.zhur. 27 no.3:291-295 '61. (MIRA 14:11)

1. Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko. (Zirconium oxide)

SHILINA, G.V.; UL'KO, N.V.

Polarographic study of oxides of zinc, germanium, chromium, molybdenum, and tungsten on a fused borax background. Ukr.khim. molybdenum, 28 no.2:172-179 '62.

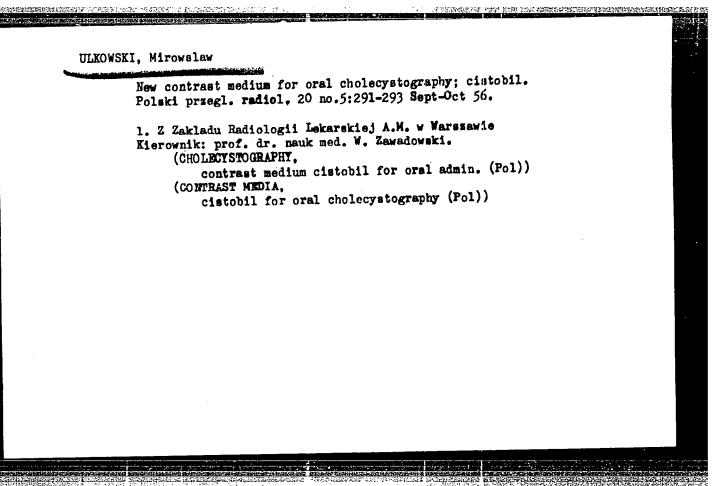
1. Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko. (Metallic oxides) (Polarography)

ULKOWSKI, Miroslaw

Comparative studies on intradermal (Mantoux) post-vaccination tuberculin tests in man. Gruxlica 23 no.5:339-342 My '55.

1. Dsial Metodycsno-Organisacyjny Instytutu Gruslicy.

(TUBERCULIN REACTION, statistics, in Poland, post-vaccinal Mantoux tests)



ULKOWSKI, Miroslaw

Some data on radiation sickness in the light of views and experiences of Soviet physicians. Polski przegl. radiol. 25 mo.4:411-418 61.

1. Z Zakladu Radiologii Lekarskiej AM. w Warszawie, Kierownik prof. dr nauk med. W. Zawadowski.

(RADIATION INJURY)

OSINSKA, Maria; ULKOWSKI, Miroslaw

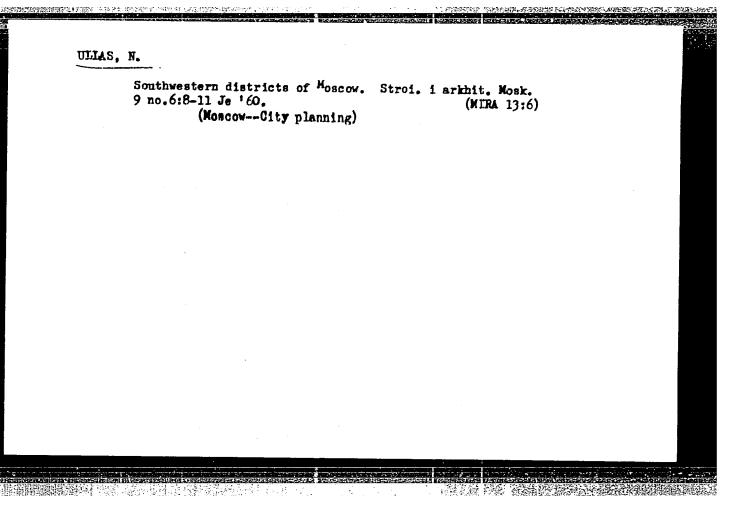
Symptomatic herpes zoster during the course of a neoplastic disease. Pol. przegl. radiol. 27 no.3:259-264 63.

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Medical care of patients with neoplastic tumours in the course of radiotherapy. Pol. przegl. radiol 20 50.6:530.538 N-D'64.

1. Z Katedry Radiologii Lekarskiej Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. S.L. Zgliczymski) i z Kliniki Radioterapii (Kierownik: doc. dr. med. J. Borejko).



ULLAS, N.N., laureat Leninskoy premii

Great future of the metropolitian area of Moscow; main trends in the prospective expansion of Moscow. Gor. khoz. Mosk. 35 no.1:6-9 Ja '61. (MIRA 14:2)

1. Glavnyy arkhitektor Instituta general'nego plana. (Moscow--City planning)

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ULLAS, N.N., laureat Leninskoy premii

Speedway; reconstruction of the route Gor'kii Street - Leningrad Avenue - Leningrad Freeway. Gor. khoz. Look. 35 no.2:17-21 f '61.

(MERA 1/.:2)

1. Glavny/ arkhitektor Instituta meneral'nego plana.

(Moscow— load construction)

ULLAS, N.N., arkhitektor, laureat Leninskoy premii

Development and reconstruction of Moscow. Gor.khoz.Mosk. 36
no.6:1-5 Je '62. (MIRA 15:8)

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Put the achievements of modern technology into the plans of apartment houses and micro-districts of the city. Gor. khoz. Mosk. 36 no.9:10-12 S *62. (MIRA 15:10) 1. Zamestitel' nachal'nika Glavnogo arkhitekturno-planirovochnogo upravleniya g. Moskvy. (Moscow—City planning)

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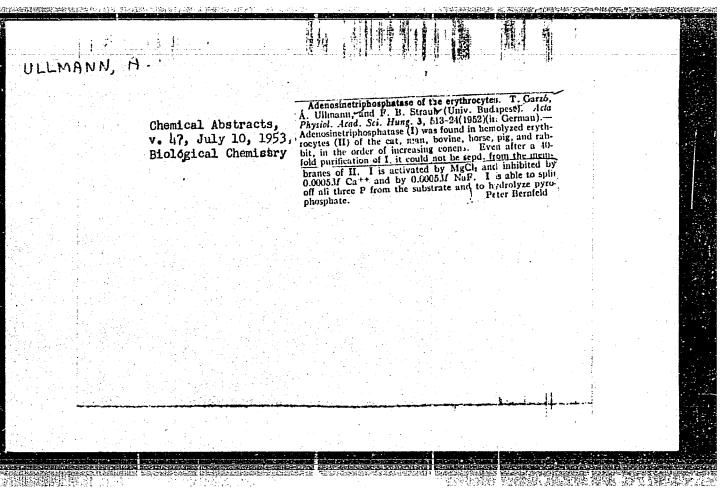
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no.9:62-66 G 165.

1. Iz khirunglobeskogo ordelaniya (zev. - Manluzhennyy vrach
PSFCR G.W. Ulla) Perhonakcy regenncy bolimitay, Fakovskoy

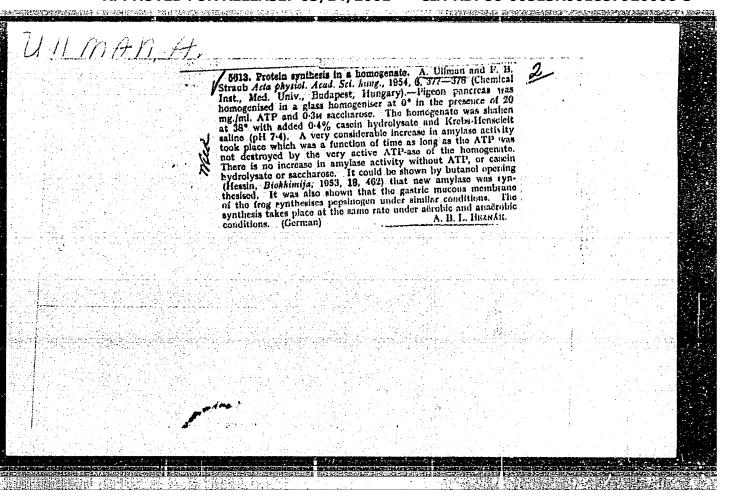
noblasti. (glavnyy vrach - M.A. Murkova).

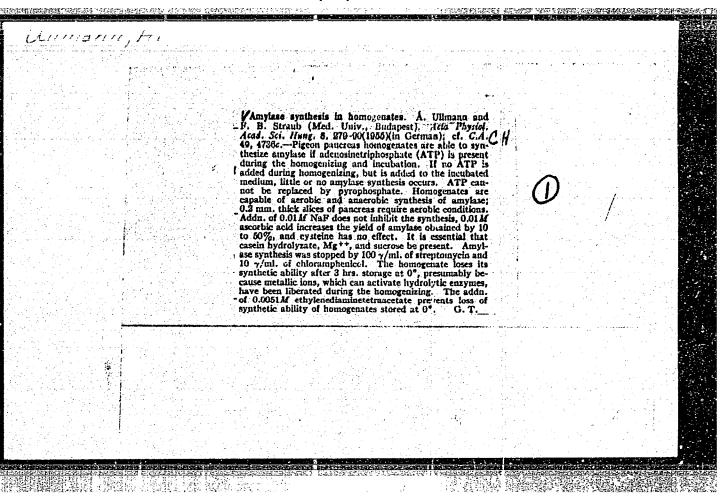


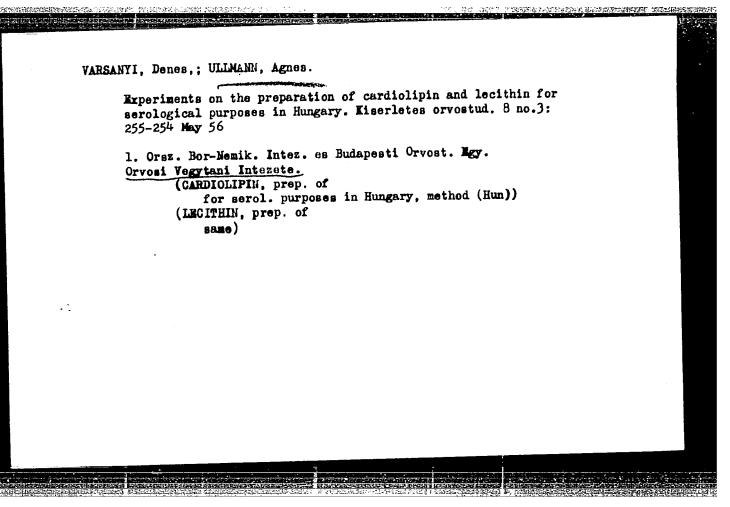
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Chem. Inst., med. Univ., Budanest. *Angaben über die Stoffwechsel von konservierten roten Blutkörperchen. Metabolism of stored erythrocytes ACTA PHYSIOI. ACAD. SCIENT. TUNG. (Budanest) 1954, 5/suppl. (7-8)

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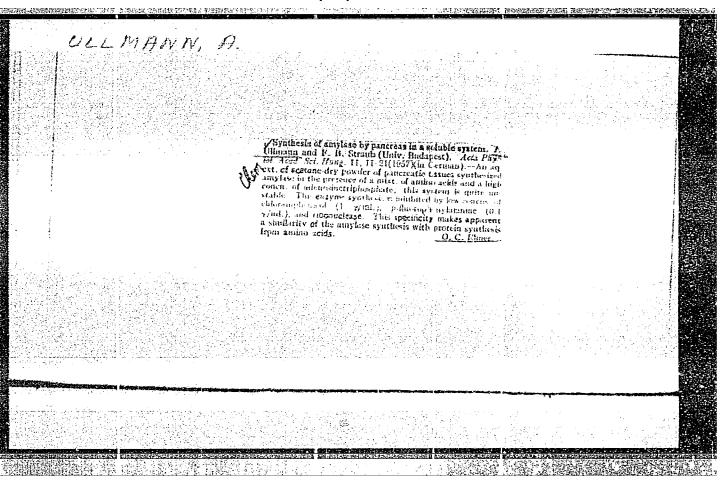
ULLMANN, A.; STRAUB, F. B.

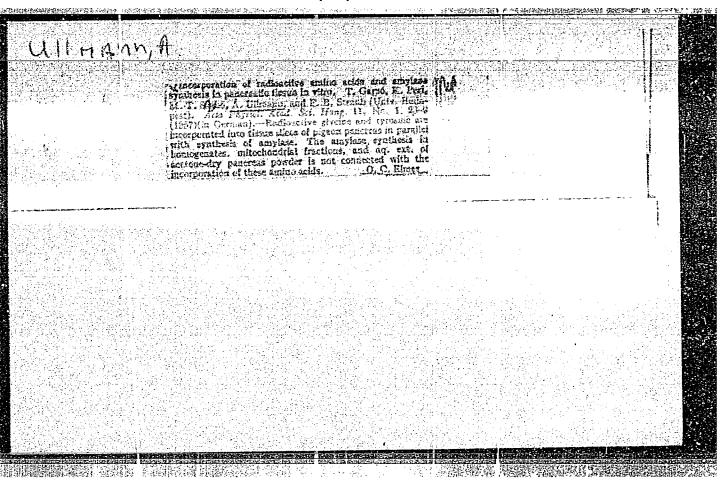
Increase in amylase activity in isolated cell fractions of pigeon pancreas. Act physiol. hung. 10 no.2-4:137-143 1956.

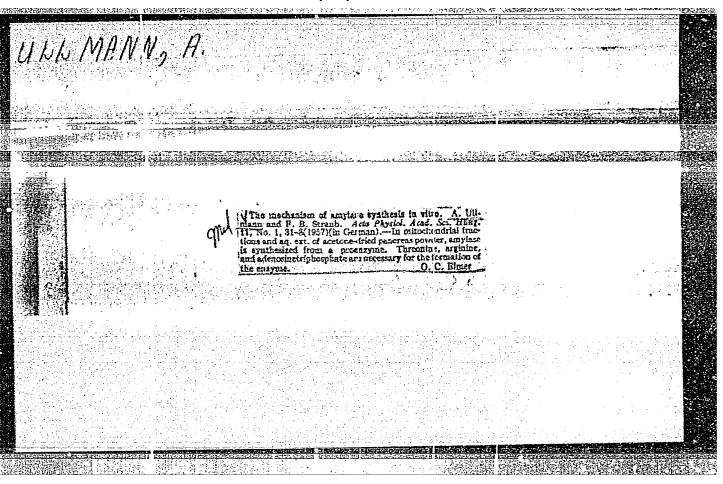
1. Chemisches Institut der medizinischen Universitat, Budapest. (AMTLASE

activity increase in isolated mitochondrial fractions of pigeon pancreas (Ger)) (PANCREAS, metab.

amylase, activity increase in isolated mitochondrial fractions of pigeon pancreas (Ger))

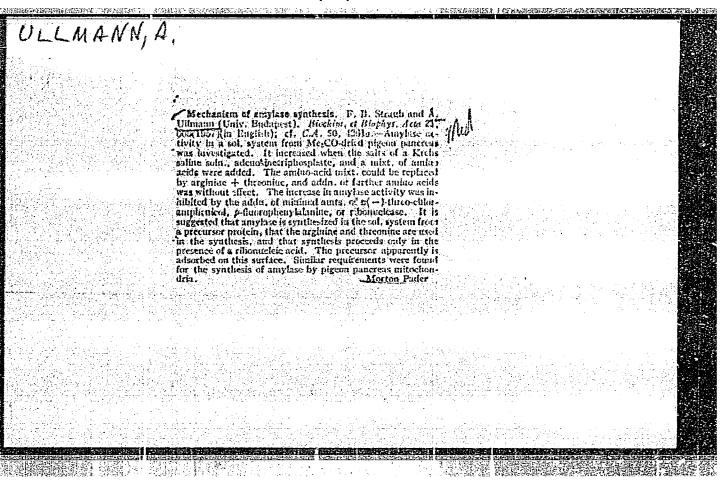






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On the formation of labelled anylase in cell free preparations. Acta physiol. hung. 13 no.2:179-181 1958.

1. Institute of Medical Chemistry, Medical University, Budapest.

(AMYIASES

form. from precursor in cell-free prep.)

ERDOS, T.; ULLMAN, Agness; TOMCSANYI, A.; DEMETER, Magda.

On the mechanism of streptomycin action. Acta physiol.hung. 17 no.3:229-239 '60.

1. Koranyi Mational Tuberculosis Institue and Institute of Medical Chemistry, Medical University, Budapest (STREPTONYCIN pharmacol)

ULIMANN, J.; KREKULE, J.

"Effect of gibberellic acid on the chlorophyll content in germinating lettuce."

p. 160 (Ceskoslovenska Biologie, Vol. 7, no. 2, 1958, Praha, Czechoslovakia)

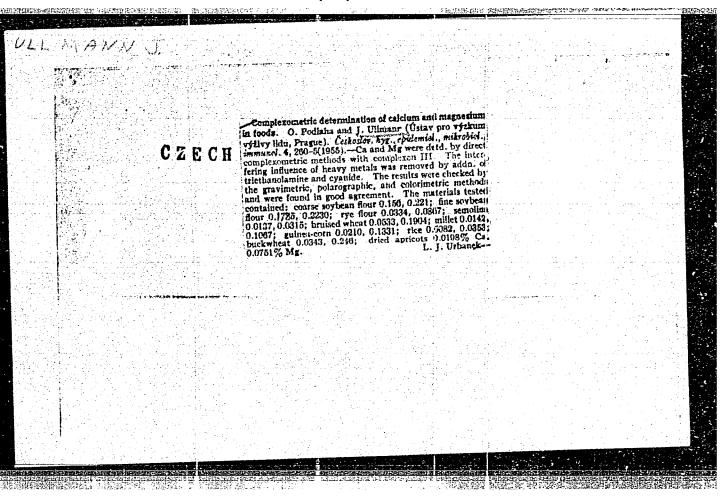
Monthly Index of East European Accessions (ERAI) LC, Vol. 7, no. 9, September 1958

ULLMANN J.; KREKULE J.

The influence of gibberellic acid on the growth of overground parts and roots of wheat, lettuce, and oats. I_n F_n glish. p. 22

BIOLOGIA PLANTAHUM (Ceskoslovenska akademie ved. Biologicky ustav) Praha, Czechoslovakia, Vol. 1, no. 1, 1959

Monthly List of East Turopean Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959 Uncl.



CZECHOSLOV/KL./Plant Physiology. Mineral Nutrition

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 86651

Author : Kutacek Milan; Ullmann Jareslav; and Liebl Vlastimil

Inst : Czechoslovak Agricultural Academy

Title : Root Excretions. II. The Transport of P32 in Wheat Plants

Grown by the Isolated Nutrition Method

Orig Pub : Spor. Ceskosl. akad. zemed. ved. Rostl. vyroba, 29, No 6,

525-536, 1956

Abstract : Seven-day wheat seedlings ere transplanted into long rectan-

gular plexiglass vessels filled with Knop's nutrient mixture, onto a partition dividing the vessel in half. Half of the root strands of every plant were provided with 7 microcures of P^{32} per mil. By means of radio-autographs and a (eiger-

Mueller counter it was shown that within 2 hours the p32 penetrated in the part of root strands that lacked p32 in the solution, and within 20 hours a considerable quantity of p32 was detected in the nutrient solution. The study was executed

Card : 1/1 at the Chair of Chemistry of the Higher School of

Agriculture .-- Z.I. Zhurbitskiy

15

Country : Czechoslovakia E-2

Category : Analytical Chemistry. Analysis of Inorganic

Substances.

Abs. Jour.: R.f. Zhur.-Khimiya No. 6, 1959 19137

Author : Ullmann, J.

Institut. : Masaryk University

Titlo : Determination of Fluorides by Mercurimetric

Titration.

Orig Pub. : Spisy vyd. prirodoved. fak. Masarykovy univ.,

1958, No 1, 33-39

Abstract: To solution analyzed, containing about 20-110 mg F-, added 10 ml 1% NaCl solution, diluted with water to 150 ml, acidified with 1 N ECl solution to pink coloration of methyl orange, added 3 ml 1 N HCl, heated to 55°, and added 250 ml saturated solution PbCl₂. After 0.5 hour resulting precipitate of PbFCl filtered through Gooch crucitle, washed with 5 ml saturated PbFCl solution, 2 ml 30% C₂H₅CH, and 3 ml 80% C₂H₅OH, dissolved in 100 ml HNO₃ (1:1) at 40°, and resulting solution titrated with 0.1 N solution Hg(NO₃)₂ in the presence of Na-nitroprusside, to appearance of Tyndall effect. Presence of 1-5 g NaNO₃ in titrate, lowers the results by 3.72%.

Card: 1/1

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Shotter, Glerak, promovany biolog CSe.; ULLMANN, Jarcalay, promovany benik

Comparison of chlorophyl determining methods. Pt.1. Ross syrobs 10 no.11:1197-1206 N.164.

1. Institute of Experimental Botany of the Gzechoslovak Academy of Sciences, Prague.

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L 00102-66 EWP(w)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(1)/EWA(c)/ETC(m)
ACCESSION NR: AP5025499 JD/WW/HW CZ/0057/65/000/004/0182/0186

AUTHOR: Tichy, Jiri (Engineer); Ullmann, Jiri (Engineer)

TITLE: Evaluation of defects of hollow forgings by ultrasonic methods

SOURCE: Hutnik, no. 4, 1965, 182-186

TOPIC TAGS: steel, metal forging, metal test, nondestructive test, ultrasonics

ABSTRACT: The tests reveal primarily macroscopic occlusions. The quality of the forging depends on the maximum size, number, linear surface, and location of the occlusions. The concept of the equivlent defect is discussed. Standards used in this respect are described. Methods used for calculations in the evaluation of the defects are discussed. Occlusions up to 3-4 mm size have very little effect upon the notch strength Cand upon the tensile strength in steels of Czech Standard 13 123. The principles according to which results of ultrasonic tests allow the classification of hollow forgings into 5 groups are discussed. Results of testing hollow forgings of high pressure steels of the Cr-Mo type are described.

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P			المراجعة والمستملية	1

ULLMANOVA, Z.; HRSEL, I.; KLASTERSKA, I.

The study of mitochondrial bodies in rice and wheat. p. 324. (CESKOSLOVENSKA BIOLOGIE, Vol. 5, No. 6, Nov 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

ULEMANDVA, Z.; SOSNOVA, V.

Anatomic and cytological studies of plastids in vegetation points. p. 323. (CESKOSLOVENSKA BIOLOGIE, Vol. 5, No. 6, Nov 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

ULLRICH, Gert, inz.

Excitation regulators of large alternators. El tech obzor 52 no.10:559-564 0 163.

1. Statni vyzkumny ustav silnoproude elektrotechniky.

ULLRICH, K.

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"Experiences in Combating Anopheles Gnats in Southern Slovakia." p. 95 (CHEMICKE ZVESTI, Vol. 5, No. 1/2, Jan./Feb. 1951) Bratislava, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857920006-3"

ULLRICH, K.; KCSTAL, J

Experiences in driving compression adits.

p. 422 (Inzenyrske Stavby) Vol. 5, no. 8, Aug. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN- 1958

H

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and

Their Application. Fats and Oils. Waxes. Soap.

Detergents. Flotation Reagents.

Abs Jour: Ref Zhur-Khim., No 13, 1958, 44733.

Author : Ullrich L , Polanyi E.

Inst:

Title : Natural Dyes for Fats.

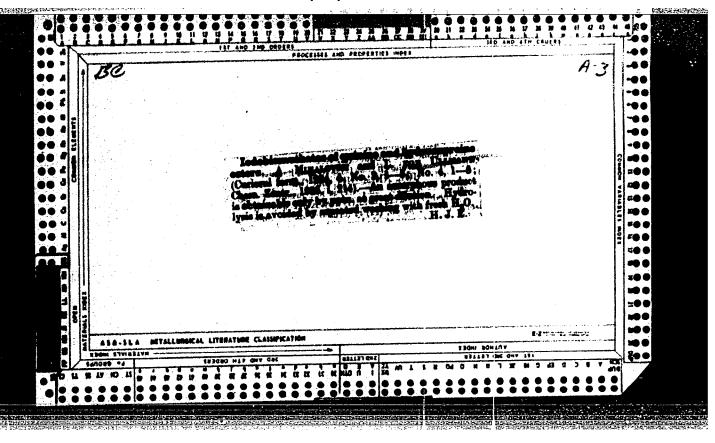
Orig Pub: Prumysl potravin, 1955, 6, No 7, 331-335.

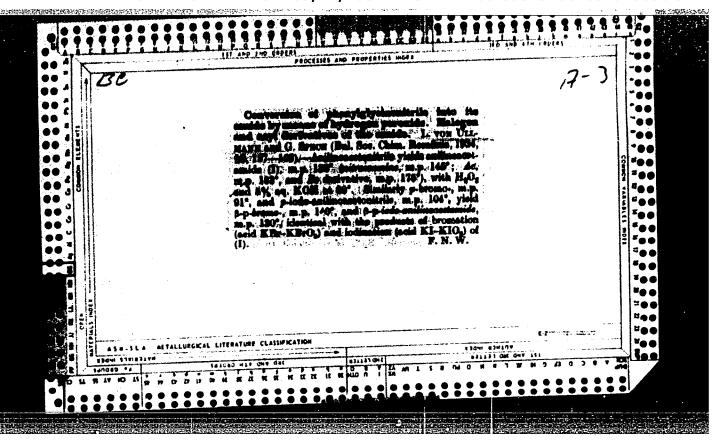
Abstract: A discussion of the use of natural dyes and syn-

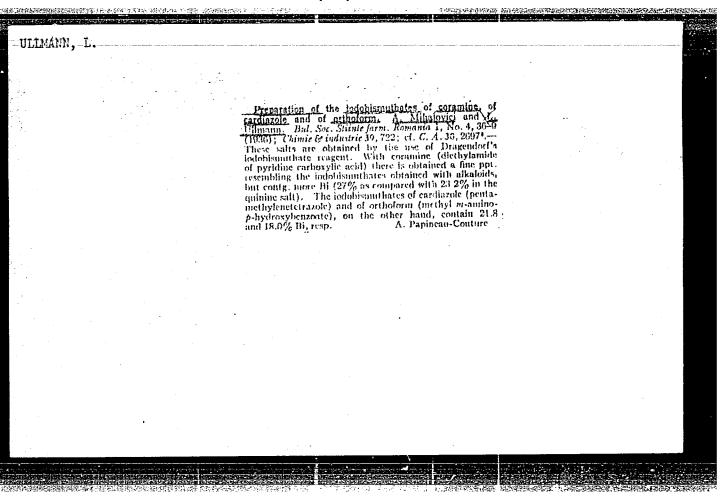
thetic azo dyes for margarine and of their effects on the organism. Tests of dyes isolated from by products of rose hips and red peppers have demon-

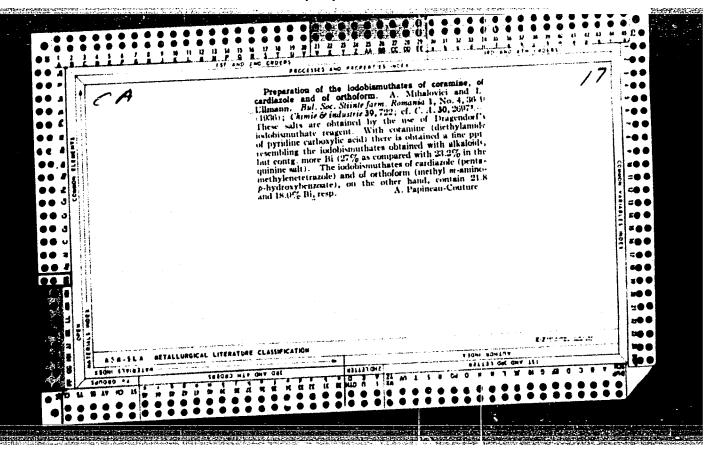
strated their good quality.

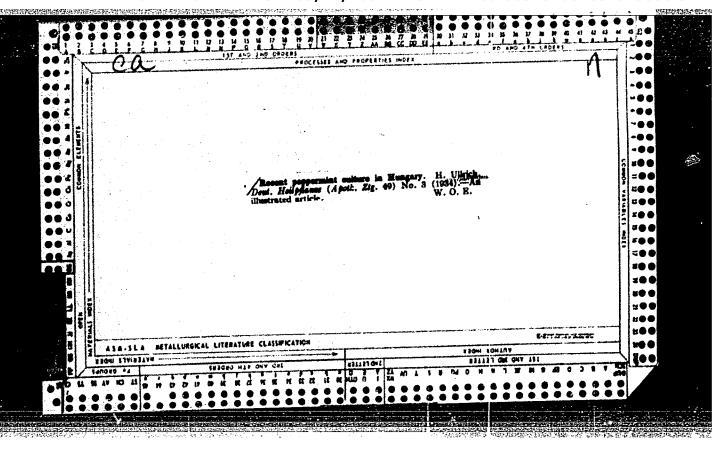
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"Progress in production and utilization of oils and fats."

Chemicke Zvesti, Bratislava, Vol 6, No 3/4, Mer./Apr. 1952, p. 243

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ULRICH, Ladislav, MUDr., (Bratislava, Dukelska 18--20)

Studies on pneumoconiosis and the problem of biological aggression of dust. Prac. lek. 17 no.7:297-299 S '65.

1. Vyzkumny ustav hygieny prace a chorob z povolania v Bratislave (riaditel prof. dr. M. Nosal). Submitted May 10, 1965.

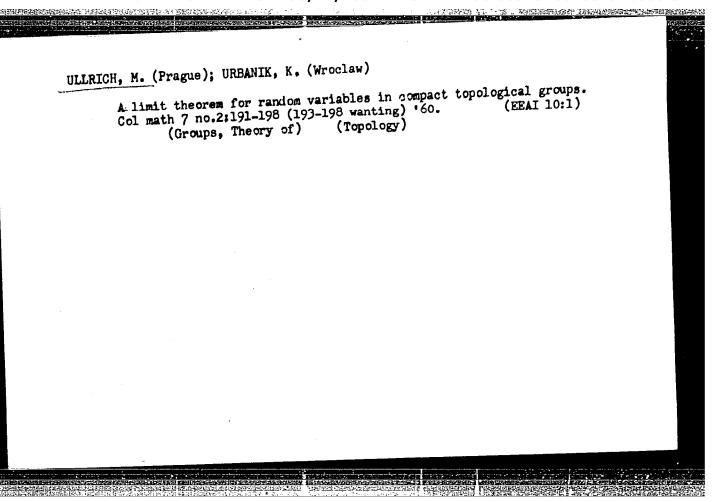
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	CZECH/2556	Conference on Information Theory, Statistical Decision Functions, Random Processes. 1st, Liblice, 1956.	Transactions. Pragus, Czechoslovak Academy of Sciences, 1957. 354 p. 1,000 copies printed.	Sponsoring Agency: Ceskoslovenská Akademie Věd. Sekoe Technicka.	Noviews: Vapler Dupac Ros Allonary Jillan Salanary Jaronia Varonia Koleánik, Gorresponding Member, Czechoniowk (Addery Salences; Mesp. Ed.: Ludek Edhm; Tech. Ed.: Frantilek Konditoky.	PURPOUR: This book is intended for specialists interested in in- formation theory and related subjects.	Pirst Prague Con- Decision Functions, 30, 1956. The Con-	rdng and Elent Epproaches :	properties of communication, stochastic properties of communication, estable settles of communication, estable settles of communication settles of communication for settles of communication for settles of from China, restenty, Poland, Seeden, the set.	in English,	continuous Mandos Decision	iables	Inverse and Adjoint Transforms of Linear Bounded Random	Almost Sure Convergence Theorem for Nandom Schwartz Di	Nedome, J. (Grachoslovskia). Note on Generalized Random Variables 139	(Czechoslovakia). Generzized Concepts of Uncertainty d of Information From the Point of Wish of the Theory a	n Abstract	Pares, A. On the Convergence of Uncertainity, Entropy, and informa- tion Samples Toward Their True Values	An Elementary Experience Problem	tions	ndom Schwar	Votavova, Ly (Czechoslovakia), Theorem on the Extreme of Entropy	S OF STREET			
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ULLICII, M.

"Bome theorems on random Schwartz distributions. In English."
p.273 (Vol. 42, 1956, Prague, Czechoslavakia)

Monthly Index of East Euro ean Accession (EEAI) LC, Vol. 7, No. 8, August 1958



ULLRICH, Milan

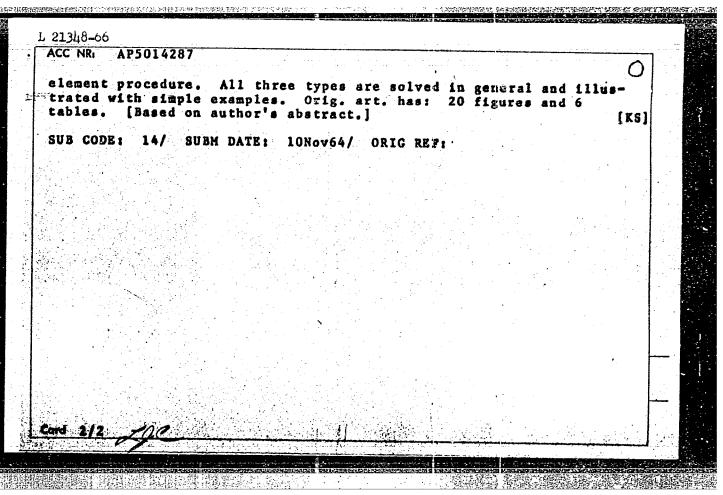
Some probability methods in automation. Tech praca 14 no.3:191-194 Mr 162.

1. Ustav teorie informace a automatizace, Ceskoslovenska akademie ved, Praha.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857920006-3

"Probability analysis of automatic control systems" by N.A. Livsic [Livshits, N.A.], V.N.Pugacev [Pugachev, V.N.]. Reviewed by Milan Ullrich. Automatizace 7 no.ll:Suppl:Technicka literatura insert N '64.

经的价值 使因为他的变形 化水油油医油油油 水流 人名英格兰 EWP(v)/EWP(k)/EWP(h)/EWP(1)I. 21348-66 CZ/0038/65/001/003/0236/0270 SOURCE CODE: ACC NR: AP5014287 AUTHOR: Kubat, L. (Engineer, Candidate of sciences); Ullrich, (Engineer, Candidate of sciences) ORG: Institute for the theory of information and automation CSA Prague (Ustav teorie informace a automatizace CSAV) TITLE: Some variants of fault-finding procedures in a system SOURCE: Kybernetika, v. 1, no. 3, 1965, 236-270 TOPIC TAGS: system maintenance, signal measurement, element measurement, signal element, fault finding ABSTRACT: Three types of fault-finding procedures are determined by the probability method. The maintenance of complex devices and systems becomes a very important problem as more maintenance hours are used in finding the nonoperative unit of a device than for actual repair work. Thus, good fault-finding procedures are necessary for fast and efficient maintenance. There is great variation in possible fault-finding procedure. In the present paper three basic procedures are discussed, which, according to the author, are most important and theoretically interesting: 1) the signal-measurement procedure, 2) the element-measurement procedure, and 3) the replacement-of-Card 1/2



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AUTHOR: Ullrich,	Milan (Engineer; Candidate of	sciences)	33 B
ORG: UTIA, Csav			
TITLE: Fundament	als of statistical dynamics		
	zace, no. 8, 1965, 203-206		
	·	ubic cutomutom etation	
TOPIC TAGS: auto	matic control theory, probabili	BUID BUILDMATON, BUEDIUM	
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HRUBISKO, M.; HRUBISKOVA, K. Technicka spoluprama: CIRANOVA, M.; ULLRICHOVA, G.

Hemorrhage in von Willebrand's disease, its nature and therapy. Bratisl. lek. listy 2 no.1825-33 64

l. Fakultna transfuzna stanica, subkatedra hematologie a transfuzie krvi SYDL v Bratislave, veduci: doc. MUDr. M. Hrubisko, C.Sc.

SIMKOVICOVA, M.; SILVAYOVA, O.; SIMKOVIC, I.; SILVAY, J.; Technicka spolupraca: CERNUSAKOVA, M.; FITTOVA, E.; HROCHOVA, L.; ULLRICHOVA, G.

Contribution to the use of ACD preserved blood in extracorporeal circulation. Bratisl. lek. listy 44 no.7:391-397 15 0 64.

1. Fakultna transfuzna stanica v Bratislave, (vedouci doc. MUDr. M. Hrubisko, C.Sc.); II. chirurgicka klinika Lek. fak. Univerzity Komenskeho v Bratislave, (veduci prof. MUDr. K. Siska, Dr. Sc.,) a Oddelenie experimentalnej chirurgie Ustavu experimentalnej mediciny Slovenskej akademie ved. v Bratislave, (veduci akademik CSAV K. Siska).

MARSA, J.; HAKOVA, D.; ULLRYCH, J.

Role of a clinicist in antiepidemic work. Cas. lek. cesk. 92 no.15:406-408 10 Apr 1953. (CIML 24:4)

1. Of KUNZ, Ceske Budejovice.

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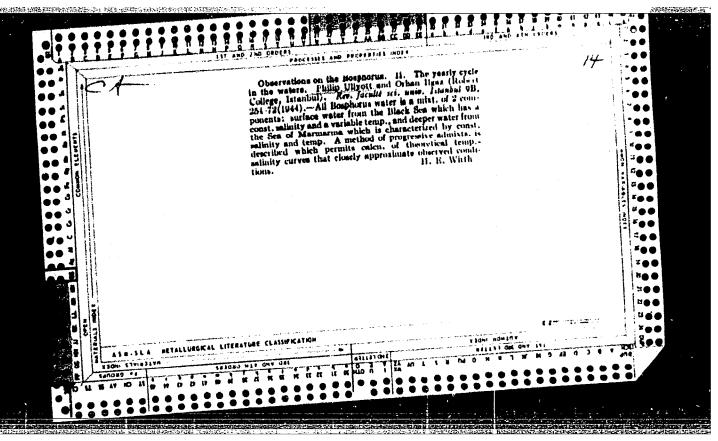
GOLDA, V.; <u>ULLSPERGER</u>, P.; BEYER, L.; PETREK, J.; LISONEK, P.; Laboratory of HNA, Medical Faculty, Palacky University, Olomouc; Institute of Anatomy, Medical Faculty, Palacky University, Olomouc. Original version not given 7.

"Laterality of Forelegs in Cats Determined by Two Different Tests."

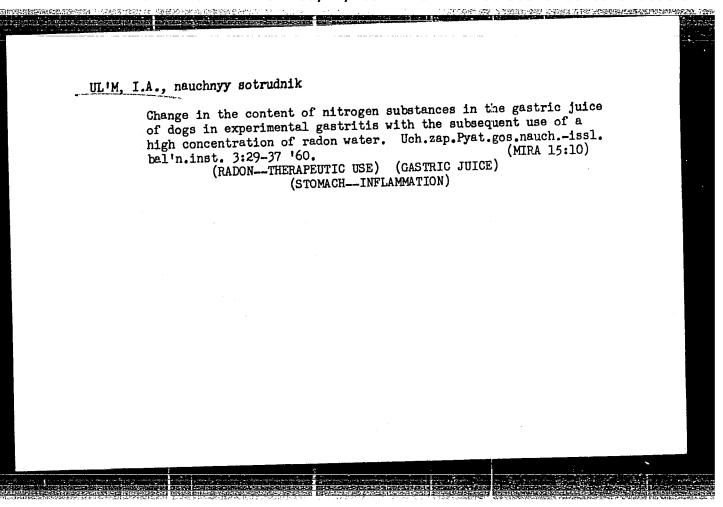
Prague, Activitas Nervosa Superior, Vol 8, No 2, Jun 66, pp 181-182

Abstract: Laterality was determined by the Cole test and the Grastyan-Molnar tests. 12 cats were studied in 10 sessions, each with 25 trials. 10 cats showed statistically different results in the 2 tests. A significantly higher variance in results was shown in the second test. In the first method the prevalence of one limb is more pronounced; 10 cats showed laterality in 80% of experiments, while only 3 cats showed a definite laterality in the second test. No references. Submitted at the 4th Interdisciplinary Confer. of Exper. and Clin. Study of Higher Nerv. Functions at Marianske Lazne, 12-15 Oct 65. Article is in English.

1/1



UL'M, I. A., Candidate Biol Sci (diss) -- "The effect of mud from Tambukan Lake on the activity of certain enzymes and the content of ascorbic acid in the tissues of animals". Moscow, 1959. 13 pp (Min Health RSFSR, StateSci Res Inst of Spa Studies and Physiotherapy), 250 copies (KL, No 26, 1959, 124)



JABUREK, Frantisek, dr.; JIRAK, Jaroslav; UIM, Emil, inz.

Raising labor productivity by piece-work wages. Ceod kart obzor 2 no.3:41-42 Mr. 16.

1. Ustredni sprava geodesie a kartografie.

ULM E ; JABUREK, F.; JIMAK, J.

Improving the organization and Labor productivity in geodesy and cartography by new efficiency standards. p. 61. GEODETICKY A KARTOGRAFICKY OBZOR. (Ustredni sprava geodesie – kartografie) Praha Vol. 2, no. 4, Apr. 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress Vol. 5, no. 12, December 1956.

ULM, E.

Distinction awarded to the Regional Geodetic and Cartegraphic Office in Opeva.

P. 150, (Geodeticky A Kartegraficky Obzor) Vol.3, no.7, July 1957, Praha, Czechoslovakia

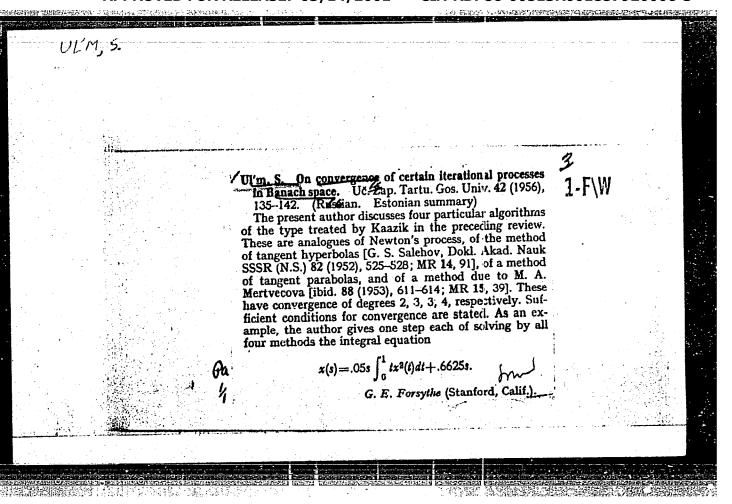
SO: Monthly Index of East European Acession (EEAI) Vol. 6, No. 11 November 1957

UL'M, S. [Ulm, S.]

Algorithms in the generalized Steffensen method. Izv. AN Est. SSR. Ser. fiz.-mat. 1 tekh. nauk 14 no.3:435-443 '65.

(MIRA 18:11)

1. Institut kibernetiki AN Estonskoy SSR.



WII. 7.

Convergence theory of iteration methods. In Russia, p. 153.

EESTI LOODUS. (Ersti MSV Teaduste Akadsemia) Tortu, Estonia Vol. 8, no. 3, 1959.

Monthly List of East European Accessions (EEAI), LO, no. 12 July, 1950. Uncl.

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CIA-RDP86-00513R001857920006-3

67134 SOV/23-59-4-7/10

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AUTHOR:

Ul'm, S.

TITLE:

On the Convergence of the Method of Tangential Parabolas for a Real Equation Under Cauchy Type Theorem

PERIODICAL:

Izvestiya Akademii nauk Estonskoy SSR, Seriya tekhnicheskikh i fiziko-matematicheskikh nauk, 1959,

Vol 8, Nr 4, pp 296-299 (USSR)

ABSTRACT:

Proceeding from a work by I.P. Mysovskikh [Ref 1] and furthering his own work / Ref 2 /, the author shows that the method of tangential parabolas is, under certain conditions, applicable to real equations just as much as in the case of general opertions ator equations. This work shows that in Cauchy's theorem for real equation, the Newton method of convergence can be considerably widened in regard to the convergence conditions. Under such conditions to the convergence conditions. tions, more precise definitions are likewise possible in the case of a theorem of convergence of tangential parabolas. The author, for the purpose

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On the Convergence of the Method of Tangential Parabolas for a Real Equation Under Cauchy Type Theorem

> of investigation, singles out a real equation P(x) =O and employing the method of tangential parabolas

$$x_n + 1 = x_n - [1 + R(x_n)] - \frac{P(x_n)}{P'(x_n)}$$
, where

$$R(x) = \frac{1}{2} \frac{P''(x)P(x)}{P'(x)^{2}}$$
 and $(n = 0,1,...)$ proves

two theorems and the above-mentioned assumption.

There are 1 diagram and 2 Soviet references. ASSOCIATION: Tallinskiy politekhnicheskiy institut (Tallin

Polytechnical Institute)

SUBMITTED:

September 4, 1959

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AUTHOR:

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16(1)

Ul'm, S.

TITLE:

On the Convergence of Iteration Methods in Jointly

Normalized Spaces

PERIODICAL:

Izvestiya Akademii nauk Estonskoy SSR, Seriya tekh-

nicheskikh i fiziko-matematicheskikh nauk, 1959,

Vol 8, Nr 4, pp 300-303 (USSR)

ABSTRACT:

In this work, the author amplifies on the results arrived at in his other work / Ref 3/, showing the transition of those results onto generalized norm spaces and considers the application of some theoretical definitions contained therein to systems of nonlinear equations. Taking a linear space X, normalized by means of a semi-uniformed space Z, and designating the generalized form of elements $x \in X$ with $|x| \in Z$, the author examines a nonlinear operator equation x = U(x) (1) where U transforms X in X. To accomplish an approximate solution of equation (1), the author employs the iteration

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On the Convergence of Iteration Methods in Jointly Normalized Spaces

method $x_n + 1 = U(x_n)$ (n = 0, 1, ...), (2)

confronts the equation (1) with a majorant equation z = V(z) (3)

and the method (2) with a method $z_n + 1 = V(z_n)$ $(x_n - 0.1)$ (4)

(n=0,1,...) where V transforms Z in Z. Assuming that U and V are continued differentiable operators and that equations (1) and (3) can be solved, the author proves theorem Nr 1, that the solution of method (2) can be reduced to the definition of x in equation (1). In theorem Nr 2, which constitutes a modification of theorem Nr 1, the author proves that it is possible to obtain a series of theorems on the convergence of varied iteration methods. Therein, the author takes an operator equation P(x) = 0 (5), where operator P transforms a

Card 2/3

67135 SOV/23-59-4-8/10

On the Convergence of Iteration Methods in Jointly Normalized Spaces

> linear space X into a space Y of similar type, and employs a modified Newton's method

 $x_n+1 = U(x_n)$ (n = 0, 1, ...) (6), where U(x) = x $- \Gamma \circ P(x), \Gamma_{\bullet}^{\bullet} [P'(X_o)]$ and proves (6) is reduced to a sole in the area and proves that succession

determination of x in equation (5). In theorem Nr 3, the author demonstrates how a majorant operator can be constructed on the basis of theorem Nr 2. There are 3 Soviet references.

ASSOCIATION: Tallinskiy politekhnicheskiy institut (Tallin technical Institute)

SUBMITTED: September 4, 1959

Card 3/3

UL'M, Sulev, Cand Phys-Math Sci (diss) -- "Investigation of some problems of the convergence of iteration methods by the Majorant principle". Tallin, 1960. 7 pp (Acad Sci Est SSR, Dept of Tech and Phys-Math Sci) (KL, No 11, 1960, 128)

"APPROVED FOR RELEASE: 03/14/2001

L 12466-63

EWT(d)/FCC(w)/BDS **IIP(C)** 63/000/001/002/004

AUTHOR:

Candidate of Physicomathematical Sciences

TITLE:

Interpolate methods for solving equations in Banach space

PERIODICAL: Akademiya nauk Estonskoy SSR. Izvestiya., Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 1, 1963, 24-30

The solution of nonlinear operator equations with the aid of iterative methods is considered. These procedures are interpolate analogs of methods of tangent parabolas (Ref. 4: V.Ye. Mirakov, UMN, 11, 3, 1956, 171-174) and tangent hyperbolas (Ref. 3: M.A. Mertvetsova, DAN, 88, 4, 1953, 611-614). The principle of majorant is applied to prove the convergence of the considered methods. The convergence theorem of the method of chords (Ref. 5: A.S. Sergeyev, Sibirskiy matem. zhurnal, 2, 2, 1961, 282-289) is generalized and made more precise. The iterative methods are:

$$x_{n+1} = x_n + \left[E - U_n (\widetilde{x}_{n-1} - x_{n-1}) \right] (\widetilde{x}_{n+1} - x_n)$$
 (1)

Card 1/2

\$/023/63/000/001/002/004 I 12466-63 Interpolate methods... $x_{n+1} = x_n + \left[E + U_n(x_{n+1} - x_{n-1}) \right]^{-1} (\tilde{x}_{n+1} - x_n)$ (2) $x_{n+1} - x_n + \left[E + U_n(x_{n+1} - x_n)\right]^{-1} \left[E - U_n(x_n - x_{n-1})\right] \left(\tilde{x}_{n+1} - x_n\right)$ (3) n=0, 1, ...for nonlinear operator P(x)=0 in Banach space X; E --unit operator of space X; $U_n = \Lambda_n P(x_n, x_{n-1}, x_{n-2})$; $\Lambda_n = [P(x_n, x_{n-1})]$ Methods (1), (2), (3) are more suitable for application in practice than the corresponding differential methods. They do not employ the derivatives of the operator P. They are convenient for use on electric computers since only the values for operator P(x) need be calculated. There are 6 non-English language references. Institut kibernetiki, Akademii nauk Estonskoy SSR (Institute ASSOCIATION: of Cybernetics, Academy of Sciences of Est SSR). July 6, 1962 SUBMITTED: Card 2/2

UL'M, S. [Ulm, S.], kand.fiz.-matem.nauk

A class of iterative methods in Hilbert space. Izv. AN Est. SSR.

Ser. fiz.-mat. i tekh. nauk 12 no.2:132-140 '63. (MIRA 16:10)

1. Institut kibernetiki AN Estonskoy SSR.

(MIRA 16:11)

UL'M, S. [Ulm, S.], kand. fiz.-matem. nauk Interpolation analogue of the method of gradients. Izv. AN Est. SSR. Ser, fiz.-mat. i tekh. nauk 12 no.3:238-243 '63. SSR, Ser, fiz.-mat. i tekh. nauk 12 no.3:238-243

1. Institut kibernetiki AN Estonskoy SSR.

CIA-RDP86-00513R001857920006-3" **APPROVED FOR RELEASE: 03/14/2001**

UL'M, S. [Ulm, S.], kand. fiz.-matem. nauk

Iterative methods for solving a nonlinear equation based on linearization by means of Newton's interpolation formula. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 12 no.4:384-390 '63.

1. Institut kibernetiki AN Estonskoy SSR.

ULIM, S.Yu. [Ulm, S.] (Tallin)

Extension of the Steffensen method for solving nonlinear operator N-D '64. equations. Zhur. vych. mat. i mat. fiz. 4 no.6:1093-1097 (MIRA 18:2)

UL'M, S. [Ulm, S.], kand. fiz.-matem. nauk

The principle of majorants and the method of chords. Izv. All Est. SSR. Ser. fiz.-mat. i tekh. nauk 13 no.3:217-227 164.

(MIRA 17:11)

1. Academy of Sciences of the Estonian SSR, Institute of Cybernetics.

ACCESSION	IR: AP4045091	s/c	020/64/158/001/00	56/0058
	m, S. Yu.			(b)
TITLE: <u>It</u>	eration methods wit	h separated di	.fferences of seco	nd order
EPURCE: F	SSSR. Doklady*,	. 158, no. 1,	1954, 56-!/8	
TOPIC TAGE	" finite difference operator, iteration	ces mëthod, ope on method	rator equition, n	onlinear
ABSTRACT	Given an equation	$\gamma \mathcal{P}(x) = 0$	(1)	
ized space	nonlinear oper X into a space Y of a form similar to	of the same type	e, and expressing	the state

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ACCESSION NR: AP4045091 $\mathcal{F}(x) = \mathcal{F}(x_0) + \mathcal{F}(x_0, x_{n-1})(x - x_n) + \\
+ \mathcal{F}(x_0, x_{n-1}, x_{n-1})(x - x_n)(x - x_{n-1}) + R_n, \qquad (2)$ where $\mathcal{F}(x_n) + \mathcal{F}(x_0, x_{n-1})(x - x_n) + \mathcal{F}(x_0, x_{n-1}, x_{n-1})(x - x_n)(x - x_{n-1}) = 0 \quad (3)$ the author proves that if Eq. (1) has a solution x^* with $\max_{x \in \mathcal{F}(x_0)} \{x^* - x_0\}, \{x^* - x_1\}, \{x^* - x_1\} \leq d$ and each x^* , x^* , x^* , x^* , x^* from the sphere $\|x^* - x^*\|$, d satisfies the estimates: $a) \|\mathcal{F}(x, x^*)\| \leq B$ $a) \|\mathcal{F}(x, x^*)\| = B$ $a) \|\mathcal{F}(x, x^*)\| = B$ then the sequence

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ACCESSION NR: AP4045091

$$x_{n+1} = x_n + [E - \alpha U_n (\tilde{x}_{n+1} - x_n)]^{-1} [E - (1 + \alpha) U_n (\tilde{x}_{n+1} - x_n)] - [U_n (x_n - x_{n-1})] (\tilde{x}_{n+1} - x_n),$$
(8)

converges to the solution x* of Eq. (1) with a speed

$$|x'-x_n| \leq \frac{1}{M} (Md)^{l_n} \quad (n=0,1,\ldots),$$
 (9)

where

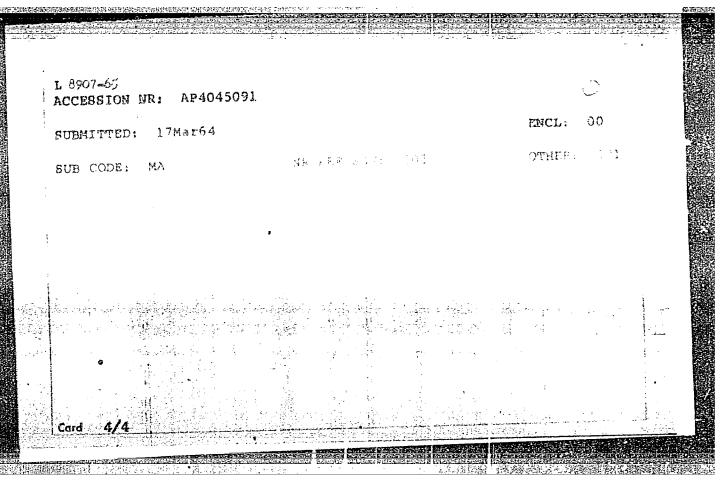
$$M = \left[\frac{BK + B^{2}H^{2} + 11 + \alpha |B^{2}H^{2}|(1 + BHd)}{1 - |\alpha|BHd(1 + B^{2}d)} \right]^{h}$$

and the numbers to are generalized Fibonacci numbers. The analogy between this interpolation and that given by others is discussed briefly. The report was presented by A. A. Forodalizeta and all the political and the presented by A. A. Forodalizeta and all the political and the presented by A. A. Forodalizeta and all the political and the presented by A. A. Forodalizeta and all the political and the presented by A. A. Forodalizeta and all the political and the presented by A. A. Forodalizeta and all the political and the presented by A. A. Forodalizeta and the political and the pol

ASSOCIATION: Institut kibernetiki Akademii nauk ESSI (Instituta of

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857920006-3



TLIM, S. [Ulm, S.]

A class of iterative methods with a third-order convergence rate. Izv. AN Est. SSR. Ser. fiz.-met. i tekt. nauk 14 no. 4: 534-539 '65 (MIRA 19:2)

1. Institut kibernetiki AN Estonskoy SSR. Sulmitted September 29, 1964.

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AUTHOR: Ulim, S.	
ORG: Institute of Cybernetics, Academy of Sciences Estonian SSR (Institut kibernetiki AN EstSSR)	
TITLE: Construction of algorithms for an approximate solution to some optimum control problems	
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ABSTRACT: The solution to certain optimum control problems can be reduced to problems of finding the absolute minima of certain functionals in function spaces. For an approximate solution to the latter problems use can be made of algorithms developed for the solution of nonlinear equations. In previous works by other authors Newton's method and a particular	
variant of the method of gradients were generalized for the solution of oper-	
on the basis of methods of functional analysis the present article gives a more general scheme for the construction of methods of this type for the	
solution of certain optimum control problems. Orig. art. nas: 38 Torindas.	
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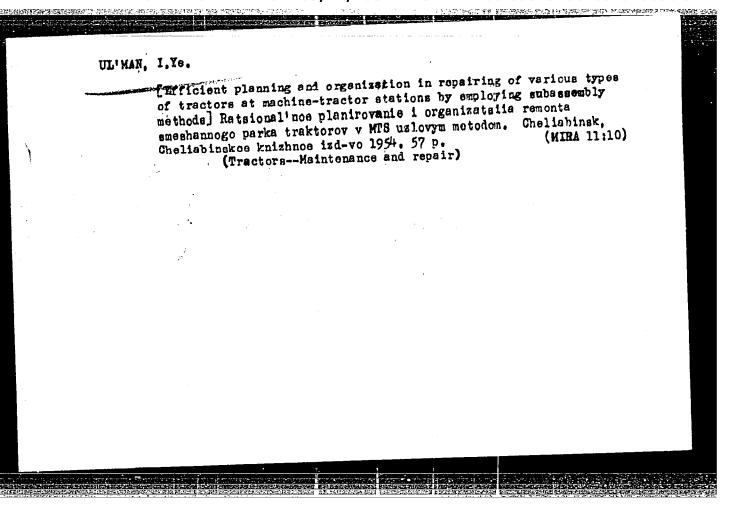
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